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FILE 'HOME' ENTERED AT 13:17:09 ON 07 FEB 2003

=> file agricola caplus biosis

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FILE 'AGRICOLA' ENTERED AT 13:17:20 ON 07 FEB 2003

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FILE 'BIOSIS' ENTERED AT 13:17:20 ON 07 FEB 2003

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=> s agl8 or agl8-like

L1 15 AGL8 OR AGL8-LIKE

=> dup rem l1

PROCESSING COMPLETED FOR L1

L2 11 DUP REM L1 (4 DUPLICATES REMOVED)

=> d 1-11 ti

L2 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 1

TI Use of ectopic expression of the **AGL8** gene to control lignin biosynthesis in transgenic plants

L2 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2003 ACS

TI Synthesis of cyclic somatostatin analogs which bind selectively to SSTR3

L2 ANSWER 3 OF 11 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

TI Seed plants characterized by delayed seed dispersal.

L2 ANSWER 4 OF 11 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

TI Method of increasing fruit size in a plant.

L2 ANSWER 5 OF 11 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

TI Seed plants characterized by delayed seed dispersal.

L2 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2003 ACS

TI Modification of plant development and plant cell differentiation with meristem-specific promoter-linked deacetylase gene and acetylphosphinothricin

L2 ANSWER 7 OF 11 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI SST3-selective potent peptidic somatostatin receptor antagonists.

L2 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2003 ACS
TI Use of the **AGL8** gene to increase fruit size

L2 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2003 ACS
TI Transgenic plants expressing the Arabidopsis **AGL8** gene and showing delayed dehiscence of seed pods

L2 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 2
TI The FRUITFULL MADS-box gene mediates cell differentiation during Arabidopsis fruit development

L2 ANSWER 11 OF 11 AGRICOLA DUPLICATE 3
TI The arabidopsis **AGL8** MADS box gene is expressed in inflorescence meristems and is negatively regulated by APETALA1.

=> d pi

L2	ANSWER 1 OF 11	CAPLUS	COPYRIGHT 2003 ACS	DUPLICATE 1
	PATENT NO.	KIND	DATE	APPLICATION NO. DATE
	-----	---	-----	-----
PI	US 6410826	B1	20020625	US 1999-339998 19990625
	US 2002194647	A1	20021219	US 2001-978382 20011015
	US 2003005481	A1	20030102	US 2001-978740 20011015

=> d ab

L2 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 1
AB The present invention provides methods of selectively controlling lignin biosynthesis in plants such that lignification is limited or increased as needed. The invention provides, for example, a method of reducing lignification in a vascular plant by ectopically expressing a nucleic acid mol. encoding an **AGL8-like** gene product in the plant, whereby lignification is reduced due to ectopic expression of the nucleic acid mol. An **AGL8-like** gene product useful in the invention can have, for example, substantially the amino acid sequence of an **AGL8** ortholog such as that of Arabidopsis. The **AGL8** gene may be used in combination with the **AGL1** or **AGL5** genes to alter patterns of lignification. All three genes encode bHLH transcription factors. The **AGL8** gene may be expressed from the promoters of the **AGL1** and **AGL5** genes. Expression of the **AGL8** gene from the 35S promoter in Arabidopsis thaliana reduced the level of lignification in all tissues examd. Inactivation of the **AGL8** gene increased overall lignification and an **AGL5,AGL8** double mutant showed low levels of lignification. **AGL8** appears to limit lignification and **AGL1** and **AGL5** promote it.

=> d clm

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L2 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 1
TI Use of ectopic expression of the **AGL8** gene to control lignin
biosynthesis in transgenic plants

=> d 3 pi

L2 ANSWER 3 OF 11 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
PI US 6288305 September 11, 2001

=> d 4 pi

L2 ANSWER 4 OF 11 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
PI US 6229068 May 08, 2001

=> d 5 pi

L2 ANSWER 5 OF 11 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
PI US 6198024 March 06, 2001

=> d 6 ab

L2 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2003 ACS
AB A method of controlling plant development and plant cell differentiation
by meristem-specific promoter regulated expression of a deacetylase (deac)
gene is disclosed. The deac gene encodes an N-acetyl-PPT
(N-acetyl-phosphinothricine)-specific deacetylase activity. Application
of the non-toxic compd. N-acetyl-PPT allows - after deacetylation within
the plant cell - inducible and selective destruction of cells within a
living plant. Thus, transgenic tobacco plants expressing the
acetylsterase gene deac1 of Stenotrophomonas from the promoter of the
AGL8 gene of Arabidopsis thaliana were created. When these plants
were sprayed with N-acetyl-PPT 1-2 wk prior to inflorescence induction,
the inflorescence development and flowering were delayed about 3-4 wk
relative to controls. Transgenic tobacco plants expressing a KNAT1
promoter-deac1 chimeric gene displayed reduced growth rate after spraying
with N-acetyl-PPT.

=> d 8 pi

L2 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2003 ACS

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9900503	A1	19990107	WO 1998-US13249	19980626
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9881686	A1	19990119	AU 1998-81686	19980626
EP 1002087	A1	20000524	EP 1998-931603	19980626
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 6229068	B1	20010508	US 1998-105652	19980626

=> d 9 ab

L2 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2003 ACS

AB Transgenic plants in which dehiscence is delayed and seed dispersal is prevented express the **AGL8** gene of *Arabidopsis thaliana* or a homolog of it. Further, seed dispersal can be delayed by inactivation of the **AGL1** and **AGL5** genes by mutation. The **AGL8** gene is preferably expressed from a dehiscence zone-selective regulatory element that limits gene expression to the valve margin or dehiscence zone of a seed plant. Expression of the **AGL8** gene from a strong promoter (35S) in *Arabidopsis* delayed or completely inhibited dehiscence but also caused early flowering. The homozygous **agl1,agl15** double mutant, generated by insertional inactivation of the genes, also lacked normal dehiscence. The promoter of the **AGL1** gene was cloned and the **AGL8** gene placed under its control. The **AGL8** and **AGL5** gene products were shown to interact using a yeast two-hybrid system.

=> d 9 so

L2 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2003 ACS

SO PCT Int. Appl., 126 pp.
CODEN: PIXXD2

=> d 9 pi

L2 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2003 ACS

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9900502	A1	19990107	WO 1998-US13208	19980625
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 6198024	B1	20010306	US 1998-67800	19980428
AU 9883760	A1	19990119	AU 1998-83760	19980625
EP 998566	A1	20000510	EP 1998-934173	19980625
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 6288305	B1	20010911	US 1999-349677	19990708

=> d 10 ab

L2 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2003 ACS

DUPLICATE 2

AB A mutation was identified in *Arabidopsis* called fruitfull (**ful-1**), which abolishes elongation of the silique after fertilization. The **ful-1** mutation is caused by the insertion of a DsE transposable enhancer trap element into the 5' untranslated leader of the **AGL8** MADS-box gene. .beta.-Glucuronidase (GUS) reporter gene expression in the enhancer trap line is obsd. specifically in all cell layers of the valve tissue, but not in the replum, the septum or the seeds, and faithfully mimics RNA in situ hybridization data reported previously. The lack of coordinated growth of the fruit tissues leads to crowded seeds, a failure of dehiscence and, frequently, the premature rupture of the carpel valves. The primary defect of **ful-1** fruits is within the valves, whose cells fail to elongate and differentiate. Stomata, which are frequent along the epidermis of wild-type valves, are completely eliminated in the **ful** mutant valves. In addn. to the effect on fruit development, **ful** cauline leaves are broader than those of wild type and show a redn. in the no. of

internal cell layers. Thus, AGL81FUL regulates the transcription of genes required for cellular differentiation during fruit and leaf development.

=> d 10 so

L2 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 2
S0 Development (Cambridge, United Kingdom) (1998), 125(8), 1509-1517
CODEN: DEVPED; ISSN: 0950-1991

=> d 11 ab

L2 ANSWER 11 OF 11 AGRICOLA DUPLICATE 3
AB MADS box genes encode putative transcription factors that play important roles in plant and animal development. In plants, MADS box genes are involved in the early step of specifying floral meristem identity as well as the later step of determining the fate of floral organ primordia. Here, we describe the isolation and characterization of a new MADS box gene from Arabidopsis, designated **AGL8**. Although **AGL8** RNA does not accumulate during vegetative growth, it accumulates to high levels in the inflorescence apical meristem as well as in the inflorescence stem and cauline leaves. **AGL8** RNA is excluded from the young flower primordia that arise on the flanks of the inflorescence meristem but later accumulates in the walls of the developing carpels. The lack of **AGL8** RNA in floral meristems is due in part to the action of another MADS box gene, APETALA1, because **AGL8** RNA does accumulate in apetalal mutant flower primordia.

=> d 11 so

L2 ANSWER 11 OF 11 AGRICOLA DUPLICATE 3
S0 The Plant cell, Nov 1995. Vol. 7, No. 11. p. 1763-1771
Publisher: [Rockville, MD : American Society of Plant Physiologists, c1989-
CODEN: PLCEEW; ISSN: 1040-4651

=> s lignin and agamous

L3 1 LIGNIN AND AGAMOUS

=> d ti

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
TI Use of ectopic expression of the AGL8 gene to control **lignin** biosynthesis in transgenic plants

=> s agl8 and mutant

L4 9 AGL8 AND MUTANT

=> dup rem l4

PROCESSING COMPLETED FOR L4

L5 6 DUP REM L4 (3 DUPLICATES REMOVED)

=> d 1-6 6ti

'6TI' IS NOT A VALID FORMAT

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REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):ti

L5 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2003 ACS
 TI Use of ectopic expression of the **AGL8** gene to control lignin biosynthesis in transgenic plants

L5 ANSWER 2 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Seed plants characterized by delayed seed dispersal.

L5 ANSWER 3 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Seed plants characterized by delayed seed dispersal.

L5 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2003 ACS
 TI Transgenic plants expressing the Arabidopsis **AGL8** gene and showing delayed dehiscence of seed pods

L5 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 1
 TI The FRUITFULL MADS-box gene mediates cell differentiation during Arabidopsis fruit development

L5 ANSWER 6 OF 6 AGRICOLA DUPLICATE 2
 TI The arabidopsis **AGL8** MADS box gene is expressed in inflorescence meristems and is negatively regulated by APETALA1.

=> s agl1 and agl5 and agl8

L6 4 AGL1 AND AGL5 AND AGL8

=> dup rem l6

PROCESSING COMPLETED FOR L6

L7 4 DUP REM L6 (0 DUPLICATES REMOVED)

=> d 1-4 ti

L7 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS
 TI Use of ectopic expression of the **AGL8** gene to control lignin biosynthesis in transgenic plants

L7 ANSWER 2 OF 4 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Seed plants characterized by delayed seed dispersal.

L7 ANSWER 3 OF 4 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Seed plants characterized by delayed seed dispersal.

L7 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS
 TI Transgenic plants expressing the Arabidopsis **AGL8** gene and showing delayed dehiscence of seed pods

WEST Search History

DATE: Friday, February 07, 2003

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
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DB=USPT,PGPB; PLUR=YES; OP=ADJ

L6	L5 and disrupt\$	12	L6
L5	l2 and transgenic	20	L5
L4	lignin and agamous	11	L4
L3	L2 and lignin	6	L3
L2	agl8 or agl8-like	20	L2

DB=USPT; PLUR=YES; OP=ADJ

L1	agl8 or agl8-like	10	L1
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END OF SEARCH HISTORY

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NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUIDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUIDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27 Oct 21 EVENTLINE has been reloaded
NEWS 28 Oct 24 BEILSTEIN adds new search fields
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT
NEWS 32 Nov 25 More calculated properties added to REGISTRY
NEWS 33 Dec 02 TIBKAT will be removed from STN
NEWS 34 Dec 04 CSA files on STN
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36 Dec 17 TOXCENTER enhanced with additional content
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 38 Dec 30 ISMEC no longer available
NEWS 39 Jan 13 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 40 Jan 21 NUTRACEUT offering one free connect hour in February 2003
NEWS 41 Jan 21 PHARMAML offering one free connect hour in February 2003
NEWS 42 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
ENERGY, INSPEC

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),